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Unlock a deeper understanding of radioactivity and nuclear chemistry with this comprehensive guide from Pelmax. Find expert answers, detailed explanations, and solutions to complex problems, ensuring you master core concepts and excel in your studies. This resource is perfect for students seeking clarity on nuclear processes and related scientific principles.

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Alpha Particles, Beta Particles, Gamma Rays, Positrons, Electrons, Protons, and Neutrons - Alpha Particles, Beta Particles, Gamma Rays, Positrons, Electrons, Protons, and Neutrons by The Organic Chemistry Tutor 784,543 views 7 years ago 10 minutes, 25 seconds - This video tutorial focuses on subatomic particles found in the nucleus of atom such as alpha particles, beta particles, gamma rays ...
Alpha Particle
Positron Particle
Positron Production
Electron Capture
Alpha Particle Production
Nuclear Chemistry & Radioactive Decay Practice Problems - Nuclear Chemistry & Radioactive Decay Practice Problems by The Organic Chemistry Tutor 151,319 views 3 years ago 26 minutes - This chemistry video tutorial provides a basic introduction into **nuclear chemistry**, and **radioactive**, decay. It contains plenty of ...
How many pretore, neutrons, and electrons are present in Mercury-2017
Which of the following is an alpha particle
What element will be formed if Thorium-230 undergoes alpha decay?
What element will be produced if Iodine-131 undergoes beta decay?
Which of the following processes converts a neutron into a proton?
Identify the unknown element
Which of the following elements will most likely undergo radioactive decay?
Which form of radioactive decay wil carbon-14 is to increase its nuclear stability
Which form of radioactive decay wil carbon-ule to increase its nuclear stability
What is the difference between nuclear fission and nuclear fusion. Give examples.
Half Life Chemistry Problems - Nuclear Radioactive Decay Calculations Practice Examples - Half Life

Chemistry Problems - Nuclear Radioactive Decay Calculations Practice Examples by The Organic Chemistry Tutor 1,345,630 views 7 years ago 18 minutes - This **chemistry**, video tutorial shows explains how to solve common half life **radioactive**, decay problems. It shows you a simple ...
Find the Rate Constant K
Sodium 24 Has a Half-Life of 15 Hours
The Rate Constant
Equations To Solve for the Half-Life
Calculate the Half-Life
Find the Half-Life
GCSE Physics - Radioactive Decay and Half Life #35 - GCSE Physics - Radioactive Decay and Half Life #35 by Cognito 528,025 views 4 years ago 6 minutes, 27 seconds - This video covers: - How **radioactive**, decay works - What activity means - The two definitions of half-life - How to show **radioactive**, ...
Introduction
Half Life
Radioactive Decay
Finding the Activity
Practice Question
Nuclear Reactions, Radioactivity, Fission and Fusion - Nuclear Reactions, Radioactivity, Fission and Fusion by Professor Dave Explains 765,095 views 8 years ago 14 minutes, 12 seconds - Radioactivity,. We've seen it in movies, it's responsible for the Ninja Turtles. It's responsible for Godzilla. But what is it? It's time to ...
electromagnetic force
strong nuclear force holds protons and neutrons together
weak nuclear force facilitates nuclear decay
nuclear processes
chemical reaction
alpha particle
if the nucleus is too large
beta emission
too many protons positron emission/electron capture
half-life
Nuclear Chemistry (Radioactivity) - NC 01 - Nuclear Chemistry (Radioactivity) - NC 01 by LearnRite 60,533 views 5 years ago 27 minutes - Master **Nuclear Chemistry**, (**Radioactivity**,) in Chemistry with Crystal Clear Concepts in LearnRite Lectures. JOIN OUR TELEGRAM ...
Nuclear Binding Energy Per Nucleon & Mass Defect Problems - Nuclear Chemistry - Nuclear Binding Energy Per Nucleon & Mass Defect Problems - Nuclear Chemistry by The Organic Chemistry Tutor 318,229 views 6 years ago 19 minutes - This **nuclear chemistry**, video tutorial explains how to calculate the nuclear binding energy per nucleon for an isotope as well as ...
Mass Defect
Mass of the Nucleus
Calculate the Mass Defect
Calculate the Nuclear Binding Energy per Nucleon
Calculate the Mass of the Nucleus
The Mass of the Nitrogen Atom
Calculate the Mass of the Subatomic Particles in the Nucleus
20.1 Introduction to Nuclear Chemistry | General Chemistry - 20.1 Introduction to Nuclear Chemistry | General Chemistry by Chad's Prep 13,549 views 1 year ago 19 minutes - Chad provides an introduction to **Nuclear Chemistry**,, the chapter where we finally get past the electrons and talk about the ...
Lesson Introduction
Nuclear Particles and Symbols
Atomic Number, Mass Number, Protons, and Neutrons
Trends in Radioactivity
Phosphorus - 32 - nuclear chemistry - Phosphorus - 32 - nuclear chemistry by Simons Nuclearchemistry 165 views 17 hours ago 3 minutes, 54 seconds - Today, we're taking a brief overview of our freshly ordered radionuclide: P-32. It arrived in the form of potassium dihydrogen ...
Unboxing of Radionuclides
Importance of Phosphorus

Radionuclide Labeling
Decay Data
Practical Tips
Goodbye :)
Nuclear Engineer Reacts to NileRed Making Superconductors - Nuclear Engineer Reacts to NileRed Making Superconductors by T. Folse Nuclear 128,968 views 5 months ago 57 minutes - Nuclear, Engineer Reacts to NileRed Making Superconductors.
Nuclear Fusion Explained - Nuclear Fusion Explained by ClickView 225,855 views 3 years ago 7 minutes, 53 seconds - The energy produced by **nuclear**, fusion powers stars like our own Sun. This clip examines **nuclear**, fusion, including what occurs at ...
Deuterium Protons: 1 Neutrons: 1
Stellarator reactor
Wendelstein 7-X
Tokamak reactor
Experimental Advanced Superconducting Tokamak (EAST)
International Thermonuclear Experimental Reactor (TER)
Nuclear Physics: Crash Course Physics #45 - Nuclear Physics: Crash Course Physics #45 by CrashCourse 898,228 views 6 years ago 10 minutes, 24 seconds - It's time for our second to final Physics episode. So, let's talk about Einstein and **nuclear**, physics. What does E=MC2 actually mean ...
Introduction
The Nucleus
Mass Energy Conversion
Strong Nuclear Force
Radioactivity
Decay
Radioactivity: Alpha Beta and Gamma Radiations - Radioactivity: Alpha Beta and Gamma Radiations by Najam Academy 47,897 views 8 months ago 7 minutes, 37 seconds - This lecture is about **radioactivity**,, alpha **radiation**,, beta **radiation**, and gamma **radiation**,. I will also teach you about **radioactive**, ...
Radioactivity: Alpha, Beta & Gamma Radiations
What is Radiation?
Types of Ionizing Radiations
Summary
Nuclear Energy Explained: How does it work? 1/3 - Nuclear Energy Explained: How does it work? 1/3 by Kurzgesagt – In a Nutshell 7,465,016 views 8 years ago 4 minutes, 44 seconds - Nuclear, Energy Explained: How does it work? **Nuclear**, Energy is a controversial subject. The pro- and anti-**nuclear**, lobbies fight ...
OIL PRICE
LIGHT WATER REACTOR
NUCLEAR FUEL
REACTOR TYPES
Radiation Rays: Alpha, Beta and Gamma - Radiation Rays: Alpha, Beta and Gamma by Engineering Technology Simulation Learning Videos 1,093,952 views 8 years ago 4 minutes, 6 seconds - Watch this video to learn more about Alpha, Beta and Gamma rays and how they work. See this and over 140+ engineering ...
Beta Rays
Gamma Rays
Fission
What is radioactivity and half-life? | Nuclear Physics | Visual Explanation - What is radioactivity and half-life? | Nuclear Physics | Visual Explanation by Dr. Pauline Moyaert 11,906 views 1 year ago 4 minutes, 42 seconds - What is **radioactivity**,? What is **radioactive**, decay? What is half-life? This video is an introduction to **nuclear**, physics and provides ...
Introduction
What is radioactivity?
What is radioactive decay?
What is half-life?
Carbon dating
Summary

The end
nuclear chemistry equations - nuclear chemistry equations by Kim Owen 68,721 views 9 years ago 7 minutes, 35 seconds - Made with Explain Everything.
Symbolic representation
Radioactive decay
Solving nuclear reactions
Stable and Unstable Nuclei | Radioactivity | Physics | FuseSchool - Stable and Unstable Nuclei | Radioactivity | Physics | FuseSchool by FuseSchool - Global Education 750,729 views 5 years ago 4 minutes, 54 seconds - Stable and Unstable Nuclei | **Radioactivity**, | Physics | FuseSchool How do you know if an atom is stable? In this video we are ...
Introduction
Atom composition
Stable nuclei
Unstable nuclei
Radioactive decay
Alpha decay
Beta-minus decay
Beta-plus decay
Determine if the atom is stable or unstable
Summary
Half-Life Calculations: Radioactive Decay - Half-Life Calculations: Radioactive Decay by chemist-NATE 778,670 views 11 years ago 7 minutes, 44 seconds - MATH VIDEO. How to calculate how much of a substance remains after a certain amount of time. ALSO: How to figure out how ...
How To Balance Nuclear Equations In Chemistry - How To Balance Nuclear Equations In Chemistry by The Organic Chemistry Tutor 236,213 views 3 years ago 10 minutes, 46 seconds - This **chemistry**, video tutorial explains how to balance **nuclear**, equations in **chemistry**,. How To Balance **Nuclear**, Equations: ...
identified the missin atomic number
calculate the atomic number
start by calculating them on the left side
Nuclear Chemistry: Crash Course Chemistry #38 - Nuclear Chemistry: Crash Course Chemistry #38 by CrashCourse 1,921,596 views 10 years ago 9 minutes, 58 seconds - In this episode, Hank welcomes you to the new age, to the new age, welcome to the new age. Here he'll talk about transmutation ...
CHEMISTRY CRASH COURSE
NUCLEAR CHEMISTRY
ISOTOPES ATOMS OF THE SAME ELEMENT (LE. SAME NUMBER OF PROTONS) THAT HAVE DIFFERENT NUMBERS OF NEUTRONS.
STABILITY
RADIOACTIVITY (AKA RADIOACTIVE DECAY) DECOMPOSITION OF A NUCLEUS TO FORM A DIFFERENT NUCLEUS.
PHOSPHORUS-32
URANIUM-238
THORIUM-234
ALPHA DECAY
GROUND STATE LOWEST, MOST STABLE ENERGY LEVEL OF AN ELECTRON
SPONTANEOUS FISSION
GCSE Physics - Alpha, Beta and Gamma Radiation #33 - GCSE Physics - Alpha, Beta and Gamma Radiation #33 by Cognito 712,352 views 4 years ago 4 minutes, 37 seconds - This video covers: - The idea that **radioactive**, materials contain unstable isotopes - What alpha, beta, gamma and neutron ...
Isotopes
Overview
Alpha Radiation
Gamma Radiation
Neutron Radiation
Summary
Carbon 14 Dating Problems - Nuclear Chemistry & Radioactive Decay - Carbon 14 Dating Problems - Nuclear Chemistry & Radioactive Decay by The Organic Chemistry Tutor 129,608 views 6 years ago

13 minutes, 45 seconds - This **nuclear chemistry**, video tutorial explains how to solve carbon-14 dating problems. It discusses how to estimate the age of an ...
Introduction
Carbon 14 in the Atmosphere
Final Answer
Radioactivity (JAMB CHEMISTRY) | Types of Radiation | Alpha & Beta Decay | Nuclear Fission & Fusion - Radioactivity (JAMB CHEMISTRY) | Types of Radiation | Alpha & Beta Decay | Nuclear Fission & Fusion by Excellence Academy 30,314 views 10 months ago 52 minutes - Chemistry, JAMB preparatory class on **RADIOACTIVITY**,. This video explains the concept of **Radioactivity**,, the types or **Radioactivity**, ...
Intro to radioactive decay | Nuclear chemistry | High school chemistry | Khan Academy - Intro to radioactive decay | Nuclear chemistry | High school chemistry | Khan Academy by Khan Academy 12,482 views 2 months ago 8 minutes, 2 seconds - During **radioactive**, decay, an unstable nucleus (the "parent") spontaneously changes to become a different nucleus (the ...
Radioactivity & Nuclear Chemistry - Radioactivity & Nuclear Chemistry by Ibis Prep 46 views 2 years ago 5 minutes, 13 seconds - Join one of our best Chemistry tutors, Raghuram, Reddy as he explains the basics of **radioactivity and nuclear chemistry**,.
Isotope Notation
Alpha decay
Beta - decay (electron emission)
Beta + decay (positron emission)
Gamma decay
Alpha Decay, Beta Decay, Gamma Decay - Electron Capture, Positron Production - Nuclear Chemistry - Alpha Decay, Beta Decay, Gamma Decay - Electron Capture, Positron Production - Nuclear Chemistry by The Organic Chemistry Tutor 205,599 views 6 years ago 17 minutes - This **nuclear chemistry**, video tutorial provides a basic introduction into **radioactive**, decay such as alpha decay, beta decay, ...
What Element Will Be Produced if Carbon-14 Undergoes Beta Decay
Beta Particle
Alpha Particle
The Positron Particle
Electron Capture
Alpha Decay Causes the Mass of an Atom To Decrease by 4
Net Effect of Beta Decay To Change a Neutron into a Proton
Part D Gamma Decay
Positron Decay
CHEM 104 - Chapter 5 - Nuclear Chemistry - CHEM 104 - Chapter 5 - Nuclear Chemistry by Dr. Elia Hefner 1,298 views 3 years ago 1 hour, 5 minutes - Hey everybody welcome back we're starting chapter five this is on **nuclear chemistry**,. **Nuclear chemistry**, is actually really important ...
RADIOACTIVITY. HALF-LIFE AND THE DECAY EQUATION. - RADIOACTIVITY. HALF-LIFE AND THE DECAY EQUATION. by Shifting Grades 32,364 views 2 years ago 7 minutes - radioactivity,.
What is Radioactivity and Is It Always Harmful: Explained in Really Simple Words - What is Radioactivity and Is It Always Harmful: Explained in Really Simple Words by Science ABC 371,879 views 3 years ago 8 minutes, 8 seconds - Radioactivity, is the property through which a heavier, unstable nucleus assumes a more stable state by emitting **radiation**,.
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